A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G1187/007 G1187/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ G11B$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	EP 0 814 469 A (SANYO ELECTRIC CO) 29 December 1997 (1997-12-29)	1,2,7-9			
Y	abstract page 3, line 50 - page 6, line 36; figure 9 page 11, line 14 - line 45; table 4	3–6			
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09, 30 July 1999 (1999-07-30) -& JP 11 120617 A (SONY CORP), 30 April 1999 (1999-04-30)	1,2,7-9			
Y	the whole document	3–6			
X	EP 1 162 614 A (TDK CORP) 12 December 2001 (2001-12-12)	1,2,7-9			
Y	paragraph '0091!; figure 1; example 4	3-6			

Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
28 October 2004	05/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hermann, R

1

Calegory Citation of doc	ument, with indication, where appropriate, of the relevant passages	
		Relevant to claim No.
CORPOI disk system applic RESEA PUBLIC VOl. XPOO7	NATIONAL BUSINESS MACHINES RATION: "Three and four data layer structures and corresponding drive ins for high capacity DVD cations" RCH DISCLOSURE, KENNETH MASON CATIONS, HAMPSHIRE, GB, 457, no. 201, May 2002 (2002-05), 130505	1,2,7-9
	nole document	3-6
10 Ja	067 535 A (PIONEER CORP) nuary 2001 (2001-01-10) raphs '0012! - '0072!; figures -7	3-6
LTD)	B86 269 A (SAMSUNG ELECTRONICS CO 23 December 1998 (1998-12-23) nole document	3,6
16 Oc colum	737 966 A (SONY CORP) tober 1996 (1996-10-16) n 5, line 51 - column 10, line 2; es 3-6,9,10	3,6
7 Jul colum figur	776 656 A (KITAGAWA SUMIKO ET AL) y 1998 (1998-07-07) n 5, line 23 - column 9, line 15; e 2 n 68, line 49 - column 74, line 40	3,6

1

INTELLINATIONAL SEATION REPORT

rmation on patent family members

International Application No PCT B2004/051253

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0814469	A	29-12-1997	JP JP CN DE DE EP US	2983920 10069647 1173014 69717726 69717726 0814469 5914926	A A ,B D1 T2 A1	29-11-1999 10-03-1998 11-02-1998 23-01-2003 16-10-2003 29-12-1997 22-06-1999
JP 11120617	Α	30-04-1999	NONE			
EP 1162614	A	12-12-2001	EP JP US	1162614 2002117585 2002009045	Α	12-12-2001 19-04-2002 24-01-2002
EP 1067535	Α	10-01-2001	JP EP	2001023237 1067535		26-01-2001 10-01-2001
EP 0886269	A	23-12-1998	KR CN EP JP JP US	242129 1208919 0886269 3124957 11016209 2002009043	A A2 B2 A	01-02-2000 24-02-1999 23-12-1998 15-01-2001 22-01-1999 24-01-2002
EP 0737966	A	16-10-1996	JP CN CN DE DE EP SG US US	8339574 1397946 1144373 69628610 69628610 1168319 0737966 50644 5989670 6241843 5766717 2001046192	A , B D1 T2 A1 A1 A B1 A	24-12-1996 19-02-2003 05-03-1997 17-07-2003 29-04-2004 02-01-2002 16-10-1996 20-07-1998 23-11-1999 05-06-2001 16-06-1998 29-11-2001
US 5776656	A	07-07-1998	JP JP JP JP US	3041230 9131968 9323478 9099642 5679430	A A A	15-05-2000 20-05-1997 16-12-1997 15-04-1997 21-10-1997